| _ | Index of Claims |          |          |                 |          |         |         |          |              |               |          |            |           | A        | Application No. |          |           |           |           |             |                     |            |    |          |            | Applicant(s) |           |          |           |           |              |                |                     |            |  |
|---|-----------------|----------|----------|-----------------|----------|---------|---------|----------|--------------|---------------|----------|------------|-----------|----------|-----------------|----------|-----------|-----------|-----------|-------------|---------------------|------------|----|----------|------------|--------------|-----------|----------|-----------|-----------|--------------|----------------|---------------------|------------|--|
|   |                 |          | •        |                 | -        | ٠,      |         |          |              | ,             |          |            |           |          |                 |          |           |           | 10        | ə١          | 7                   | 99         | 4  | Ιφ       |            |              |           |          |           |           |              |                |                     |            |  |
|   |                 |          |          |                 |          |         |         |          |              |               |          |            |           |          | E               | Examiner |           |           |           |             |                     |            |    |          |            | Art Unit     |           |          |           |           |              | Т              |                     |            |  |
|   |                 |          |          |                 |          |         |         |          |              |               |          |            |           |          |                 |          |           |           |           |             |                     |            |    |          |            |              |           |          |           |           |              |                |                     |            |  |
|   |                 | ,        |          |                 |          |         |         |          |              |               |          |            |           |          |                 | <u> </u> |           |           |           |             |                     |            |    |          |            |              | <u></u>   |          |           |           |              |                |                     |            |  |
|   |                 |          | 1        | D,              | ni o     | otor    |         |          |              |               | (Th      | rot        | ıgh ı     | านถ      | ner             | al)      |           | Ì         |           |             |                     |            |    |          |            |              | _         |          |           |           |              | $\neg$         |                     |            |  |
|   |                 | •        | Ľ        | L               | Rejected |         |         |          |              |               | •        | Cancelled  |           |          |                 | •        |           |           | N         | N           | on                  | on-Elected |    |          | Α          |              | Appeal    |          |           |           |              |                |                     |            |  |
|   |                 |          | =        | A               | llov     | wed     |         |          | +            |               |          | Restricted |           |          |                 |          |           |           |           | 10          | nto:                | rfor       | 00 |          |            | 0            |           | Objected |           |           | $\exists$    |                |                     |            |  |
|   |                 |          | L        | L               |          |         |         |          | L            | <u> </u>      |          |            |           |          |                 |          |           |           | "         |             | terference          |            |    | Ľ        | L          |              |           |          |           |           |              |                |                     |            |  |
|   | С               | laim     | Τ        |                 |          | D       | ate     |          |              |               | ור       | Claim      |           |          |                 | Da       |           |           |           |             |                     |            | Г  | Claim    |            | _            |           | Date     |           |           |              |                |                     |            |  |
|   |                 |          |          |                 |          |         |         | T        | Τ            |               |          |            | Т         |          | 1               |          |           |           |           |             | $\Box$              |            | ŀ  |          |            |              | $\Box$    | $\Box$   | Π̈́       |           |              | П              | $\exists$           | $\dashv$   |  |
|   | Final           | Original |          |                 |          |         |         |          |              |               |          | Fina       | Original  |          |                 |          |           |           |           |             |                     | İ          |    | Final    | Original   |              | 1 1       | i        |           | ı         |              |                | 1                   |            |  |
|   |                 |          |          |                 |          |         |         |          |              |               |          |            | ł         |          |                 |          |           |           |           |             |                     |            |    | "        | ŏ          |              |           |          |           | -         |              |                | -                   |            |  |
|   | -               | 1        | 1        |                 | -        | $\Box$  | $\perp$ | Ţ        | Ŧ            | -             |          |            | 5)<br>52  | Е        | _               |          | $\square$ |           |           |             | $\Box$              | $\exists$  |    |          | 101        |              | П         | 口        | $\Box$    | $\exists$ | 二            | $\dashv$       | コ                   |            |  |
|   |                 | 1        |          |                 | $\dashv$ | +       | +       | +        | ╁            | $\vdash$      | -        |            | 53        | $\vdash$ | $\vdash$        | -        | $\dashv$  | $\dashv$  | $\dashv$  | $\dashv$    | $\dashv$            | $\dashv$   | ŀ  |          | 102<br>103 |              |           | $\dashv$ | $\neg$    | $\dashv$  | $\dashv$     | $\dashv$       | +                   | $\dashv$   |  |
|   |                 |          |          | $\vdash \vdash$ | $\perp$  | I       | Ţ       | I        |              |               |          |            | 54        |          |                 |          |           |           |           | $\sqsupset$ | $\exists$           | $\exists$  |    |          | 104        |              |           |          |           | $\exists$ | コ            |                | 士                   | $\exists$  |  |
|   | -               | 1        | $\vdash$ | $\vdash$        | $\dashv$ | +       | ┿       | +        | +-           | $\vdash$      |          |            | 55<br>56  | $\vdash$ | -               | $\vdash$ | $\dashv$  | $\dashv$  | $\dashv$  |             | $\dashv$            | $\dashv$   | +  |          | 105<br>106 | H            |           |          | $\dashv$  | $\dashv$  | $\dashv$     | 4              | $\dashv$            | 4          |  |
|   |                 | 11       |          |                 |          |         | 丰       |          | 上            |               |          |            | 51        |          |                 |          |           |           |           | ╛           |                     |            | t  |          | 107        |              |           |          |           | $\dashv$  | $\exists$    | _              | +                   | $\dashv$   |  |
|   | -               | 9        | ╀        | $\vdash \vdash$ | $\dashv$ | +       | +       | +        | -            | $\vdash$      | -        |            | 58<br>59  |          |                 | Щ        | _         |           | $\exists$ | $\dashv$    | $\exists$           | $\exists$  | F  |          | 108        | П            | $\square$ | $\Box$   | $\Box$    | コ         | $\Box$       | $\dashv$       | 7                   | $\Box$     |  |
|   |                 | 10       |          |                 |          | $\top$  | $\pm$   | 1        | 1            |               | -        |            | 6Ö        | H        | -               |          | $\dashv$  | ᅱ         | $\dashv$  | $\dashv$    | +                   | $\dashv$   | ŀ  |          | 109<br>110 |              | $\dashv$  |          | $\dashv$  | $\dashv$  | -            | +              | $\dashv$            | 4          |  |
|   | <u> </u>        | 112      | L        |                 | $\dashv$ | 4       | 1       | $\perp$  | L            |               |          |            | 6         |          |                 |          |           |           |           | $\exists$   |                     | $\Box$     | ľ  |          | 111        |              |           |          | $\Box$    | $\exists$ |              |                | ユ                   | $\exists$  |  |
|   |                 | 18       | ┢        | $\vdash$        | +        | +       | +       | +        | +            | -             | -        |            | 62<br>63  |          |                 |          | -         | $\dashv$  | $\dashv$  | -           | $\dashv$            | $\dashv$   | H  | $\dashv$ | 112<br>113 | Н            | $\dashv$  | $\dashv$ | $\dashv$  | $\dashv$  | $\dashv$     | -+             | -                   | $\dashv$   |  |
|   |                 | 14       | L        |                 |          |         | 1       | I        | L            |               |          |            | 64        |          |                 |          |           |           |           |             |                     | $\exists$  | İ  |          | 114        |              |           |          |           | $\exists$ | コ            | <del>-</del> + | $\exists$           | _ <u>;</u> |  |
|   | -               | 15       | $\vdash$ | $\vdash$        | $\dashv$ | -       | +-      | ╁        | ╁            | $\vdash$      | <u> </u> |            | 65<br>66  |          |                 |          | -         |           | 4         |             | $\dashv$            | $\dashv$   | -  |          | 115<br>116 | Ш            |           | $\dashv$ | $\dashv$  | $\dashv$  |              | $\dashv$       | 4                   | 4          |  |
|   |                 | 17       |          |                 | $\Box$   |         | 1       | I        |              |               |          |            | 67        |          |                 |          |           |           |           | $\exists$   | $\exists$           | 1          | ŀ  |          | 117        | _            |           |          |           | $\dashv$  | $\dashv$     |                | $\dashv$            | $\dashv$   |  |
| • |                 | 18       | <u> </u> | $\dashv$        | +        |         | +       | ┼        | ╀            | $\vdash$      | F        |            | 68<br>69  |          |                 |          | $\dashv$  | 4         | _         | $\dashv$    | 4                   | $\dashv$   |    |          | 118<br>119 | I            | $\square$ | $\Box$   | $\exists$ | $\Box$    | $\Box$       | 1              | $\Box$              | $\Box$     |  |
|   |                 | 20       | Ĺ        |                 | İ        | 亡       | i       | 上        | Ė            |               |          |            | 70        |          |                 |          | -         | $\dashv$  | $\dashv$  |             | i                   | $\dashv$   | -  |          | 120        |              | $\dashv$  | $\neg$   | $\dashv$  | $\dashv$  | <del>-</del> | _              | 1                   | $\dashv$   |  |
|   | <u> </u>        | 21       |          | -               | $\perp$  | _ _     | Ţ       | Ļ        | $oxed{\bot}$ |               |          |            | 71        |          |                 |          |           | $\exists$ | $\Box$    | $\dashv$    | $\Box$              | 4          |    |          | 121        |              |           |          | $\Box$    | コ         | $\exists$    | 二              | $\dashv$            | ]          |  |
|   |                 | 23       | -        | $\dashv$        | $\dashv$ | +       | ╁       | +        | ╁            | Н             | -        |            | 72<br>73  |          |                 | Н        | $\dashv$  | -         | $\dashv$  | $\dashv$    | $\dashv$            | $\dashv$   | F  |          | 122<br>123 | Н            | $\dashv$  | $\dashv$ | $\dashv$  | $\dashv$  | $\dashv$     | -              | $\dashv$            | $\dashv$   |  |
|   |                 | 24       |          |                 | 4        | 1       | 1       | 1        |              |               |          |            | 74        |          |                 |          |           |           |           |             |                     | $\exists$  |    |          | 124        |              |           |          | コ         | $\exists$ | $\exists$    | 士              | $\exists$           | $\exists$  |  |
|   | -               | 25<br>26 | Н        | +               | +        | +       | ╁       | +        | ╁            | $\vdash$      | $\vdash$ | _          | 75<br>76  |          | $\dashv$        | Н        | $\dashv$  | -         | 4         | $\dashv$    |                     | $\dashv$   | -  | {        | 125<br>126 | -            | $\vdash$  | $\dashv$ | _         | -         | -            | $\dashv$       | -                   | 4          |  |
|   |                 | 27       |          |                 | 1        |         | 工       |          |              |               |          |            | 77        |          |                 |          |           |           |           | $\exists$   | $\exists$           | $\exists$  | t  |          | 127        |              |           |          | $\exists$ | $\exists$ | $\exists$    | $\exists$      | +                   | $\dashv$   |  |
|   | -               | 28<br>29 | -        | -               | +        | +       | +       | ╀        | ┼            | Н             | -        |            | 78<br>79  |          |                 | _        | $\dashv$  | -         | 4         | $\dashv$    |                     | $\exists$  | F  | _        | 128        |              | $\square$ | $\Box$   | $\dashv$  | $\dashv$  | $\dashv$     | 1              | $\exists$           | $\exists$  |  |
|   |                 | 3≬       |          |                 | $\perp$  | 1       |         | 1        |              |               |          |            | 80        |          | $\Box$          |          | $\dashv$  | $\exists$ | Ⅎ         |             | _                   | $\dashv$   | +  | $\dashv$ | 129<br>130 | $\vdash$     |           |          | $\dashv$  | $\dashv$  | $\dashv$     | $\dashv$       | $\dashv$            | $\dashv$   |  |
|   | <u> </u>        | 32       | Н        | -               | +        | -       | 1       |          |              | $\square$     | F        |            | 81        |          |                 |          |           |           | $\exists$ | $\exists$   | $\Box$              | $\exists$  | ļ  |          | 131        | П            | 口         | $\Box$   | 耳         | コ         | 耳            | $\dashv$       | コ                   | コ          |  |
|   |                 | 33       | Н        | +               | +        | +       | ╁       | ╁        | ┢            | $\vdash$      | $\vdash$ | $\dashv$   | 82<br>83  | H        |                 |          | -         | $\dashv$  | $\dashv$  | $\dashv$    | $\dashv$            | $\dashv$   | ┟  | $\dashv$ | 132<br>133 |              |           | $\dashv$ | $\dashv$  | $\dashv$  | $\dashv$     | $\dashv$       | $\dashv$            | $\dashv$   |  |
|   |                 | 34       |          | $\Box$          | ]        | $\perp$ |         |          |              |               |          |            | 84        |          |                 |          |           |           |           | $\exists$   |                     | コ          |    |          | 134        |              |           |          |           |           |              |                | 士                   |            |  |
|   | -               | 35<br>36 | Н        | $\dashv$        | +        | +       | ╁       | ┼        | -            | $\vdash$      | $\vdash$ |            | 85<br>86  |          |                 |          | $\dashv$  | $\dashv$  |           | -           | $\dashv$            | $\dashv$   | -  | $\dashv$ | 135<br>136 | _            | $\dashv$  | 4        |           | $\dashv$  | _            |                | 4                   | 4          |  |
|   |                 | 37       |          |                 |          |         |         |          | _            |               |          |            | 87        |          | $\exists$       |          | ᅥ         | 一         | $\dashv$  | $\dashv$    | $\dashv$            | $\dashv$   | -  | -        | 137        |              |           |          | $\dashv$  | $\dashv$  | $\dashv$     | <del>- i</del> | +                   | $\dashv$   |  |
|   |                 | 38<br>39 |          | _ -             | -        | - -     | - -     | -        | -            |               |          | _          | 88        |          |                 |          | $\exists$ | $\exists$ | $\Box$    | $\exists$   |                     |            |    |          | 138        |              |           |          |           |           |              |                | _                   |            |  |
|   |                 | 40       |          | _ -             |          |         |         | +        | +-           | $\vdash$      | -        |            | 89<br>90  | $\vdash$ | $\dashv$        |          |           | $\dashv$  |           | $\dashv$    | $\dashv$            | -          | -  | -        | 139<br>140 | Н            |           | -        |           | $\dashv$  | -            | -              | $\dashv$            | $\dashv$   |  |
|   |                 | 41       |          | 7               | 7        | 1       |         |          |              |               |          |            | 91        |          |                 |          | 二         |           | コ         | $\exists$   | $\exists$           |            |    |          | 141        |              |           |          |           | $\exists$ |              |                |                     |            |  |
|   | -               | 42       | $\vdash$ | $\dashv$        | $\dashv$ | +       | -       | ╁        | $\vdash$     | $\vdash \mid$ |          | -          | 92<br>93  | Н        |                 | $\dashv$ | $\dashv$  | $\dashv$  | $\dashv$  | $\dashv$    | $\dashv$            | $\dashv$   | -  |          | 142<br>143 |              |           | $\dashv$ | -         | $\dashv$  |              | -              | $\dashv$            | -          |  |
|   |                 | 44       |          |                 |          |         |         | İ        |              |               |          |            | 94        |          |                 |          | 寸         |           | _         | _           | _†                  | $\dashv$   | +  |          | 144        | $\vdash$     |           | $\dashv$ | $\dashv$  | $\dashv$  |              | $\dashv$       | $\dashv$            | $\dashv$   |  |
|   | _               | 45<br>46 |          |                 | +        |         | +       | $\vdash$ | <del> </del> | $\Box$        |          | _          | 95        |          | $\Box$          | $\Box$   | $\exists$ | $\Box$    | $\Box$    | $\exists$   | $\Box$              |            |    |          | 145        |              |           |          |           | 二         |              | $\Box$         | $\rightrightarrows$ |            |  |
|   |                 | 47       |          | +               | +        | -       | +-      | +        | +            | $\vdash$      | -        | -          | 96<br>97  |          | -               | $\dashv$ | $\dashv$  | -         | $\dashv$  | $\dashv$    | $\dashv$            | $\dashv$   | -  |          | 146<br>147 | $\vdash$     |           | $\dashv$ |           |           | $\dashv$     | -              | $\dashv$            | $\dashv$   |  |
|   |                 | 48       | П        | 7               | $\Box$   | 1       | T       |          | L            |               |          |            | 98        |          |                 |          |           | 耳         | 〓         | $\exists$   | $\rightrightarrows$ |            |    |          | 148        |              |           |          | 口         |           |              |                | コ                   | $\exists$  |  |
|   | -               | 49<br>50 | $\vdash$ | +               | +        | 1-      | ╁       | $\vdash$ | $\vdash$     | $\vdash$      | -        |            | 99<br>100 | $\vdash$ | -               | $\dashv$ |           | $\dashv$  |           | $\dashv$    | $\dashv$            | $\dashv$   | -  |          | 149<br>150 | H            | -         |          |           |           |              | -              | -                   | 4          |  |
|   |                 | ليشب     | اا       |                 | i        | 1       |         | ٠        |              | اا            | l        | :          |           | . 1      | . 1             |          | - 1       | - 5       | - 1       | - 1         | - 1                 | - 1        |    | - 1      |            | . 1          | . 1       | , 1      | , 1       | . !       |              |                |                     | ,          |  |